



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0672

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: NXT Power

Manufacturer's Technical Representative: Cherian Jose

Mailing Address: 7051 W. Wilson Ave, Norridge, IL 60706

Telephone: (312) 310-0894 Email: cherian.jose@nxtpower.com

Product Information

Product Name: UPS and Batteries

Product Model Number(s): Integrity Max UPS

Product Category: UPS and Batteries

Product Sub-Category: UPS

General Description: The UUTs are enclosures with boards, fans, fuses, breakers, trips, batteries, battery accessories, transformers, displays, and other accessories.

Mounting Description: Rigid, Rigid Base Mounted with Manufacturer Provided Brackets.

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: DCL Labs, LLC

Contact Person: Nastya Veyngerova

Mailing Address: 1315 Greg Street, Suite 109, Sparks, NV 89431

Telephone: (775) 358-5085 Email: nastya.veyngerova@shaketest.com

Title: Seismic Test Engineer



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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: THE VMC GROUP

Name: Kenneth Tarlow California License Number: S2851

Mailing Address: 980 9th Street, 16th Floor, Sacramento, CA 95814

Telephone: (832) 627-2214 Email: ken.tarlow@thevmcgroup.com

Certification Method

☐ GR-63-Core ☒ ICC-ES AC156 ☐ IEEE 344 ☐ IEEE 693 ☐ NEBS 3
☐ Other (Please Specify): _____

Testing Laboratory

Company Name: DYNAMIC CERTIFICATION LABORATORY (DCL)

Contact Person: Josh Sailer

Mailing Address: 1315 Greg St., Ste 109, Sparks NV 89431

Telephone: (775) 358-5085 Email: josh@shaketest.com

BY: Timothy J. Piland

DATE: 08/08/2025



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Seismic Parameters

Certified Response Spectral Acceleration Factors: (F_p/W_p)

Horizontal (A Flx-H), $g =$ 3.20 (A Rig-H), $g =$ 2.40

Vertical (A Flx-V), $g =$ 1.34 (A Rig-V), $g =$ 0.54

SDS (Design spectral response acceleration at short period, g) = 2.0

H_f (Force amplification height factor) = 1 @ $z/h=0$; 3.5 @ $z/h=1$

R_u (Structure ductility reduction factor) = 1 @ $z/h=0$; 1.3 @ $z/h=1$

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 0 and 1

HCAI Approval (For Office Use Only) - Approval Expires on 08/08/2031

Date: 8/8/2025

Name: Timothy Piland

Title: Senior Structural Engineer

Condition of Approval (if applicable): _____

BY: Timothy J. Piland

DATE: 08/08/2025

Special Seismic Certification

Table 1 - Certified Components



DCL Project Number: 03489-2501

Manufacturer: NXT Power

Product Line: Integrity Max UPS

Product Type: Uninterruptible Power Supply (UPS)

Mounting: Rigid Base Mount with Manufacturer-Provided Brackets

Certified Seismic Levels: Sds = 2.0g with z/h = 1.0 and z/h = 0.0

NPTU Units					
Model Number	Max. Dimensions [in.]			Max. Weight [lb.]	Unit ¹
	Depth	Width	Height		
NPTU2200-HO-N	33.0	12.0	28.5	290	Extrapolated
NPTU2200-O-N	33.0	12.0	28.5	290	Extrapolated
NPTU3200-HO-N	33.0	12.0	28.5	290	Extrapolated
NPTU3200-O-N	33.0	12.0	28.5	290	Extrapolated
NPTU4200-HO-N	33.0	12.0	28.5	290	Extrapolated
NPTU4200-O-N	33.0	12.0	28.5	290	Extrapolated
NPTU5200-HO-N	33.0	12.0	28.5	290	Extrapolated
NPTU5200-O-N	33.0	12.0	28.5	290	Extrapolated
NPTU6000-HO-N	33.0	12.0	28.5	290	Extrapolated
NPTU6000-O-N	33.0	12.0	28.5	290	UUT1
NPTU8200-HO-N	33.0	12.0	28.5	350	Interpolated
NPTU10.0-O-N	32.8	12.0	28.5	350	UUT2
NPB Unit					
NPB48-192	29.0	12.0	29.0	420	UUT3

Note:

1. Interpolated and extrapolated units vary by software and number of power receptacles. The maximum number of receptacles was tested in UUT1 and UUT2.

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DATE: 08/08/2025

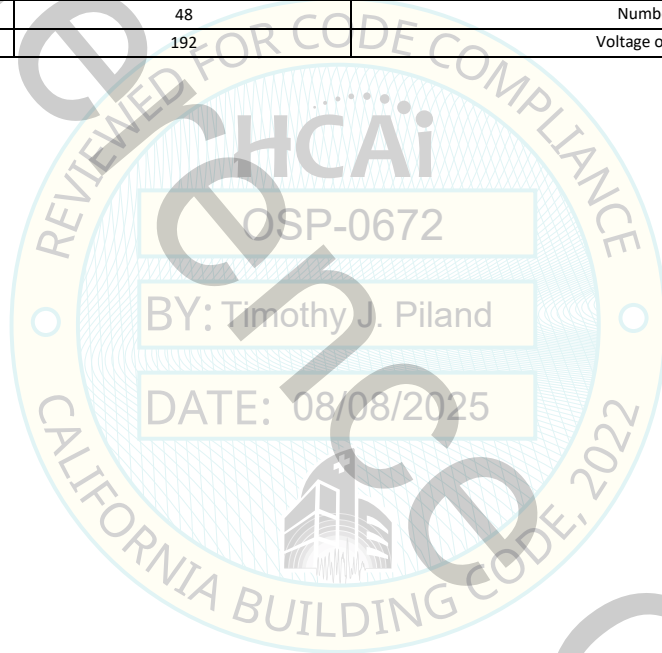
Special Seismic Certification
Table 2 - Nomenclature Chart



DCL Project Number: 03489-2501

Product Line: Integrity Max UPS

NPTU Units		
Example Model Number:	ABCD-XXXX/XX.X-EF/E-G	
Example Value	Allowable Values	Definition
ABCD	NPTU	NXT Power Transformer UPS
XXXX	2200-8200	Power, measured in volt-amperes (VA)
XX.X	10.0	Power, measured in kilovolt-amperes (kVA)
EF	HO	Hard Wired
E	O	Receptacles
G	N	North America
NPB Units		
Example Model Number	ABCXX-YYY	
Example Value	Allowable Values	Definition
ABC	NPB	NXT Power Battery Pack
XX	48	Number of Batteries
YYY	192	Voltage of Battery Cabinet



Only

Special Seismic Certification

Table 3 - Certified Subcomponents



DCL Project Number: 03489-2501

Product Line: Integrity Max UPS

Enclosures						
Model Number	Manufacturer	Description	Material	Weight [lb.]	Unit	
4300-npu	Kehua	Sheet Metal Housing	Carbon Steel (Galvanized)	20	UUT1, UUT2	
4300-nptu		Sheet Metal Housing		20	UUT3	
Transformers						
2505-00866	Kehua	Transformer (T1) TV6K-240A	Copper Wire, Epoxy	45	UUT1	
2505-00863		Transformer (T1) TV10K-240A		50	UUT2	
Boards						
4102-03844	Kehua	Button board KR1000 (V6.0) R6	Plastic	<1	UUT1, UUT2	
4102-07617		Logic Board	PCB	<1	UUT1, UUT2	
4102-07619		Filter Board		1	UUT1	
4102-07620		Filter Board		1	UUT2	
4102-07623		Communication Board		1	UUT1, UUT2	
4102-08023		Output Capacitor Board		1	UUT1, UUT2	
4102-07860		Battery Fuse Board		1	UUT1, UUT2	
4102-07625		Power Board		2	UUT1, UUT2	
4102-08022		Input Filter Board		2	UUT1, UUT2	
4102-07624		Power Amplifier Board		9	UUT1	
4102-07626		Power Amplifier Board		9	UUT2	
Batteries and Battery Accessories						
SBS75G	Anderson Power Products Inc.	Power connector (External Battery)	Plastic	<1	UUT1, UUT2, UUT3	
2208-15655	Kehua	Battery Cable Set	Copper Wire	<1	UUT1, UUT2, UUT3	
HR 1234W F2	CSB	Battery, VRLA UPS12460-F2FR .25 inch tab	Lead Acid	6	UUT1, UUT2, UUT3	
Fans						
AB8025H12	Minebea Co. Ltd.	Internal Fan (FAN1,FAN2)	Plastic	<1	UUT1, UUT2	
AB8025M12	Heyuan Yongjia Industry Co. Ltd.	Rear Fan (FAN3,FAN4)	Plastic	<1	UUT1, UUT2	
Display						
2015-00103	Kehua	Liquid Crystal Display Module	LCD	<1	UUT1, UUT2	
Fuses, Breakers, Trips, and Accessories						
63ET	Bussmann	Fuse (Power)	Ceramic, Copper	<1	UUT1	
80ET		Input Fuse (FU1)		<1	UUT2	
100ET		Battery Fuse (FU2)		<1	UUT2	
S201M-CS0UC	ABB	Circuit Breaker (Battery)	Plastic, Carbon Steel, Copper	<1	UUT1, UUT2	
S2C-A2		Shunt Trip (Battery CB)		<1	UUT1, UUT2	
NDB1-125 C63/2	Shanghai Liangxin Electrical Co. Ltd.	Circuit Breaker (Input)		<1	UUT1, UUT2	
MX+OF		Shunt Trip (Input CB)		<1	UUT1, UUT2	
SD		Auxiliary Contact (Input Circuit Breaker)		<1	UUT1, UUT2	
NDB1-125 C63/2		Circuit Breaker (QF4)		<1	UUT1	
3LBB-63 X382.2 G251	Beijing RKK	Transfer Switch		<1	UUT1, UUT2	
DSTB22-12P	Shenzhen Connection Electronic Co. Ltd.	Terminal Block (XT)		1	UUT2	

Special Seismic Certification

Table 4 - Tested Units



DCL Project Number: 03489-2501

Manufacturer: N XT Power

Product Line: Integrity Max UPS

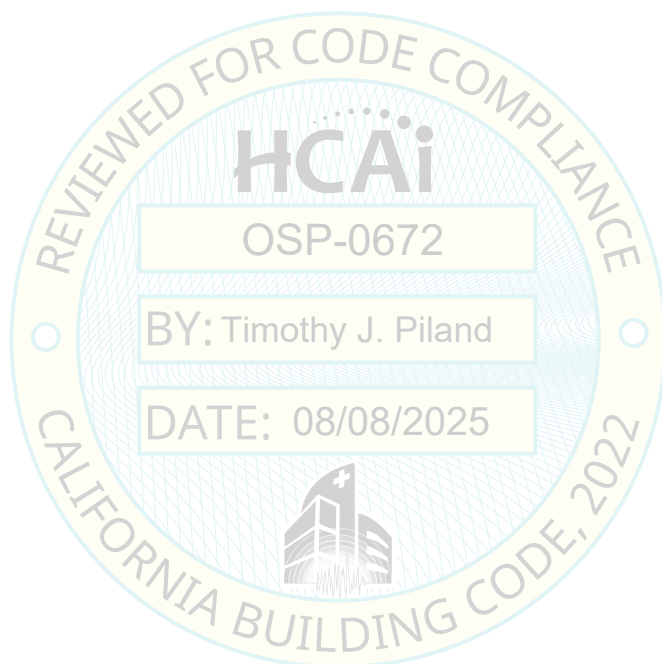
Product Type: Uninterruptible Power Supply (UPS)

DCL Report Number: 10630-2001

Mounting: Rigid Base Mount with Manufacturer-Provided Brackets

Certified Seismic Levels: Sds = 2.0g with z/h = 1.0 and z/h = 0.0

Model Number	Dimensions [in.]			Weight [lb.]	Unit
	Length	Width	Height		
NPTU6000-O-N	33.0	12.0	28.5	290	UUT1
NPTU10.0-O-N	32.8	12.0	28.5	350	UUT2
NPB48-192	29.0	12.0	29.0	420	UUT3



UNIT UNDER TEST (UUT) Summary Sheet



UUT1

DCL Repot Number: 10630-2001

Manufacturer: NXT Power

Product Line: Integrity Max UPS

Model Number: NPTU6000-O-N

Product Construction Summary: Painted Carbon Steel

Options / Component Summary: The UUT is an enclosure filled with boards, fans, fuses, breakers, trips, batteries, transformers, displays, and other accessories.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

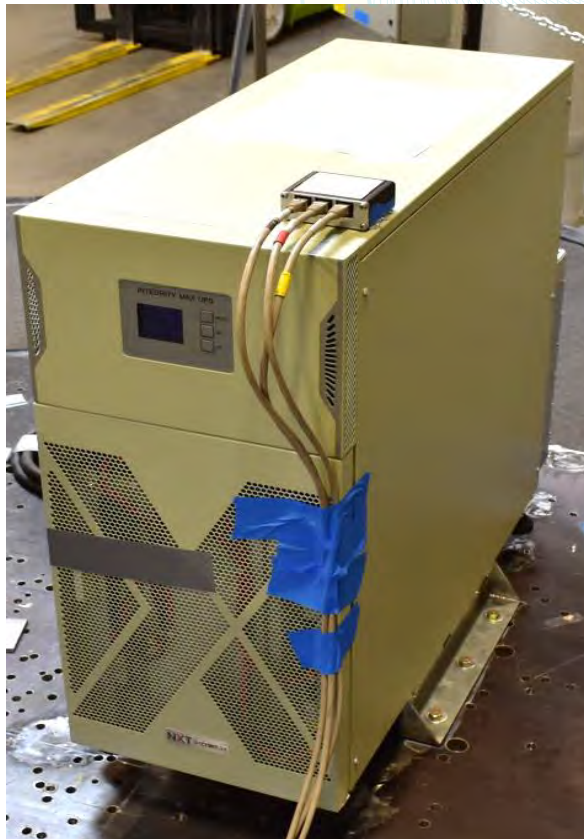
UUT Properties

Operating Weight (lb)	Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
290	33.0	12.0	28.5	11.0	20.0	20.5

Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	H _f	R _μ	Ip	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2025	ICC-ES AC156	2.00	1.00	3.5	1.3	1.5	3.20	2.40	N/A	N/A
		2.00	0.00	1.0	1.0		N/A	N/A	1.34	0.54

Unit Mounting Description: UUT1 was mounted to the shake table interface plate with (2) 11 gauge galvanized carbon steel manufacturer-provided brackets (Part Number: 001-00021-01-FNL). Each bracket was mounted to the shake table interface plate with (3) 3/8" Grade 8 bolts and washers. The bolts were spaced at 4.5" depthwise on each bracket and 13" widthwise across the unit. Each bracket was mounted to the UUT with (2) M8 Class 8.8 bolts and washers. The bolts were spaced at 11" depthwise on each bracket.



Overall picture of UUT1 as well as bracket mounting

UNIT UNDER TEST (UUT) Summary Sheet



UUT2

DCL Repot Number: 10630-2001

Manufacturer: NXT Power

Product Line: Integrity Max UPS

Model Number: NPTU10.0-O-N

Product Construction Summary: Painted Carbon Steel

Options / Component Summary: The UUT is an enclosure filled with boards, fans, fuses, breakers, trips, batteries, transformers, displays, and other accessories.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
350	32.8	12.0	28.5	13.0	23.5	24.0

Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	H _i	R _μ	I _p	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2025	ICC-ES AC156	2.00	1.00	3.5	1.3	1.5	3.20	2.40	N/A	N/A
		2.00	0.00	1.0	1.0		N/A	N/A	1.34	0.54

Unit Mounting Description: UUT2 was mounted to the shake table interface plate via (2) 11 gauge galvanized carbon steel manufacturer provided brackets (Part Number: 001-00021-01-FNL). Each bracket was mounted to the shake table interface plate with (3) 3/8" grade 8 bolts and washers. The bolts were spaced at 4.5" depthwise on each bracket and 13" widthwise across the unit. Each bracket was mounted to the UUT with (2) M8 Class 8.8 bolts and washers. The bolts were spaced at 11" depthwise on each bracket.

BY: Timothy J. Piland



Overall picture of UUT2 as well as bracket mounting

UNIT UNDER TEST (UUT) Summary Sheet



UUT3

DCL Repot Number: 10630-2001

Manufacturer: NXT Power

Product Line: Integrity Max UPS

Model Number: NPB48-192

Product Construction Summary: Painted Carbon Steel

Options / Component Summary: The UUT is an enclosure filled with boards, fans, fuses, breakers, trips, batteries, transformers, displays, and other accessories.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
420	29.0	12.0	29.0	7.5	14.5	23.5

Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	H _f	R _μ	I _p	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2025	ICC-ES AC156	2.00	1.00	3.5	1.3	1.5	3.20	2.40	N/A	N/A
		2.00	0.00	1.0	1.0		N/A	N/A	1.34	0.54

Unit Mounting Description: UUT3 was mounted to the shake table interface plate via (2) 11 gauge galvanized carbon steel manufacturer provided brackets (Part Number: 001-00029-01-FNL). Each bracket was mounted to the shake table interface plate with (3) 3/8" grade 8 bolts and washers. The bolts were spaced at 6" depthwise on each bracket and 13" widthwise across the unit. Each bracket was mounted to the UUT with (3) M8 Class 8.8 bolts and washers. The bolts were spaced at 7" depthwise on each bracket.



Overall picture of UUT3 as well as bracket mounting